

AMENDMENTS TO THE ABSTRACT

Please amend the abstract as follows:

An ~~To provide an~~ interference-signal removing apparatus is provided for removing narrow-band interference signals from input signals including wide-band desired signals and the narrow-band interference signals, which suppresses that even desired signals are removed. The interference-signal removing apparatus includes ~~an~~ following are included: extraction section ~~means~~ 11 for extracting interference signals from input signals, a removal circuit ~~means~~ 12 for removing extracted interference signals from input signals, an extraction control section ~~means~~ 13 for controlling extraction of interference signals by the extraction section ~~means~~ 11 in accordance with the removal result, and an extraction-amount suppression section ~~means~~ 14 for suppressing the interference signal amount to be extracted in accordance with input signals, ~~for example, in which the extraction control means 13 computes a control vector constituted of a plurality of digital control values for controlling extraction of interference signals and outputs the control vector to the extraction means 11, the extraction means 11 extracts the inner product of an input vector constituted of a plurality of input signal values and the control vector as an interference signal, and the extraction-amount suppression means 14 restricts effective word lengths of digital control values constituting the control vector.~~